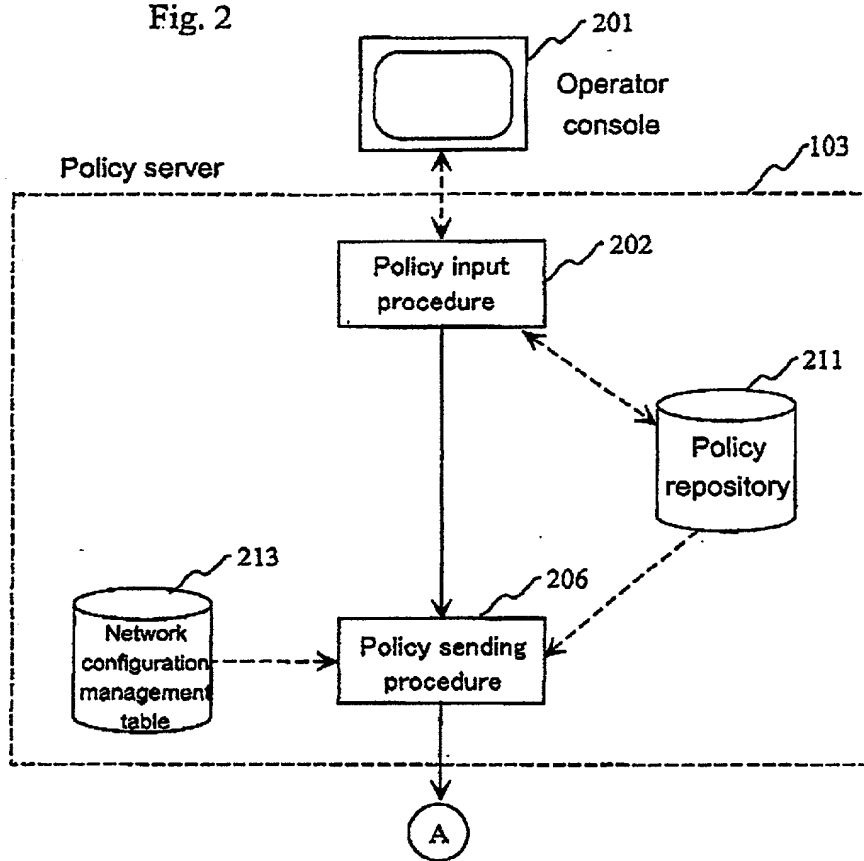


Fig. 2



Edge policy

Fig. 3 (a)

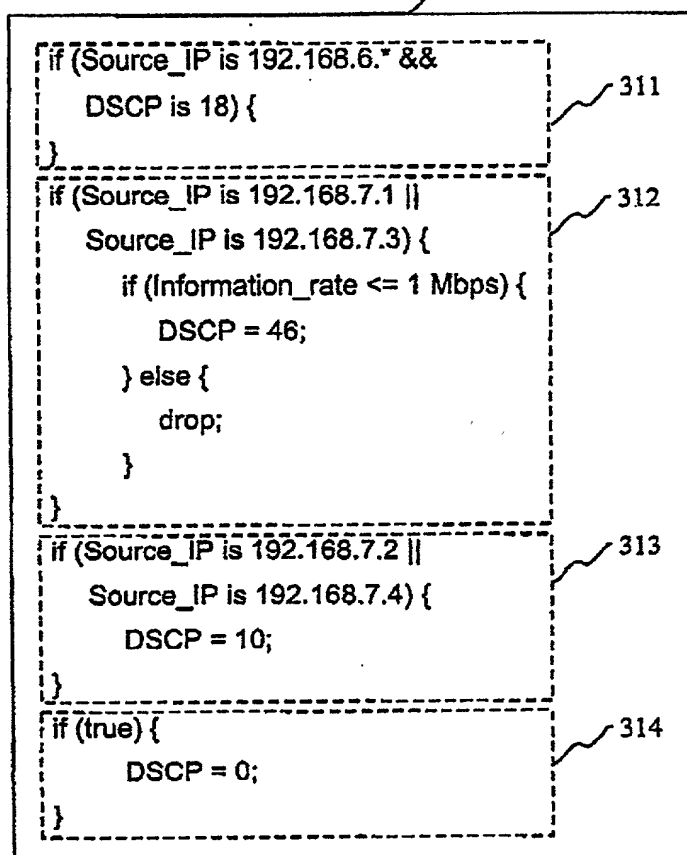


Fig. 3 (b)

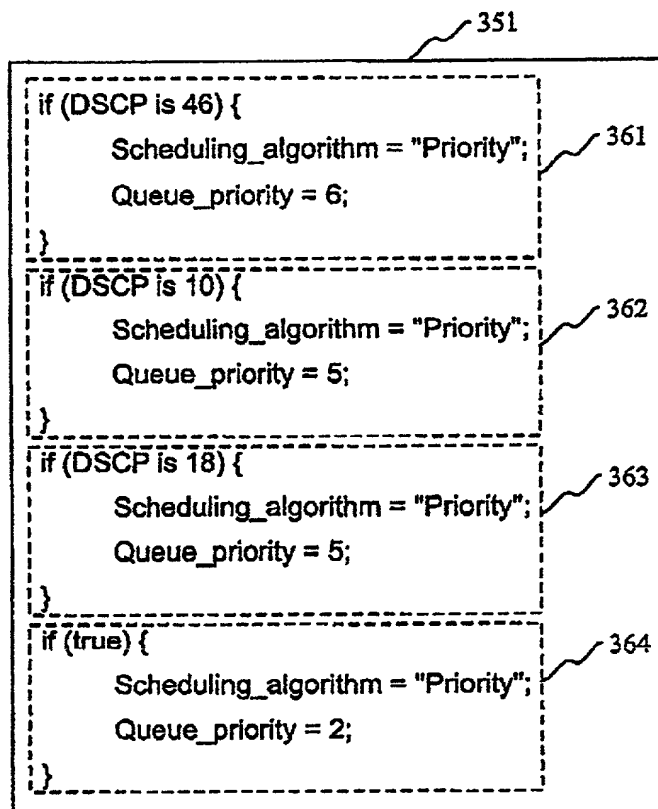


Fig. 4

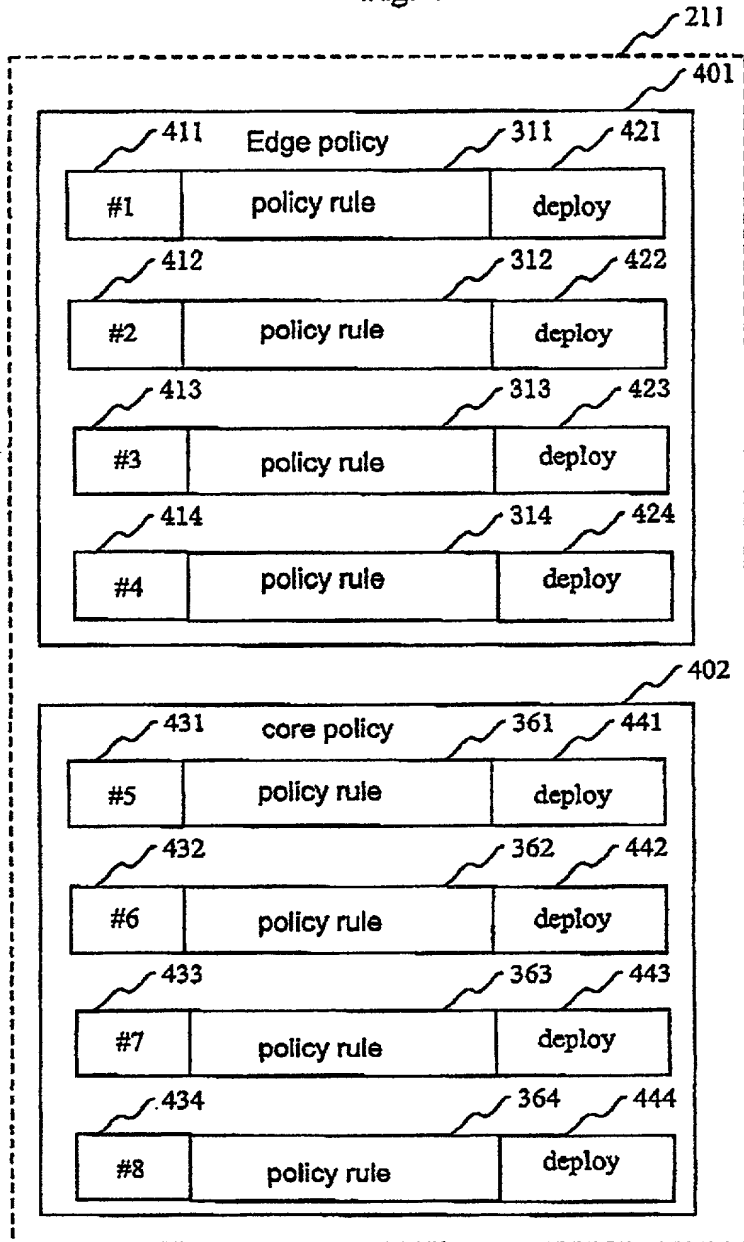
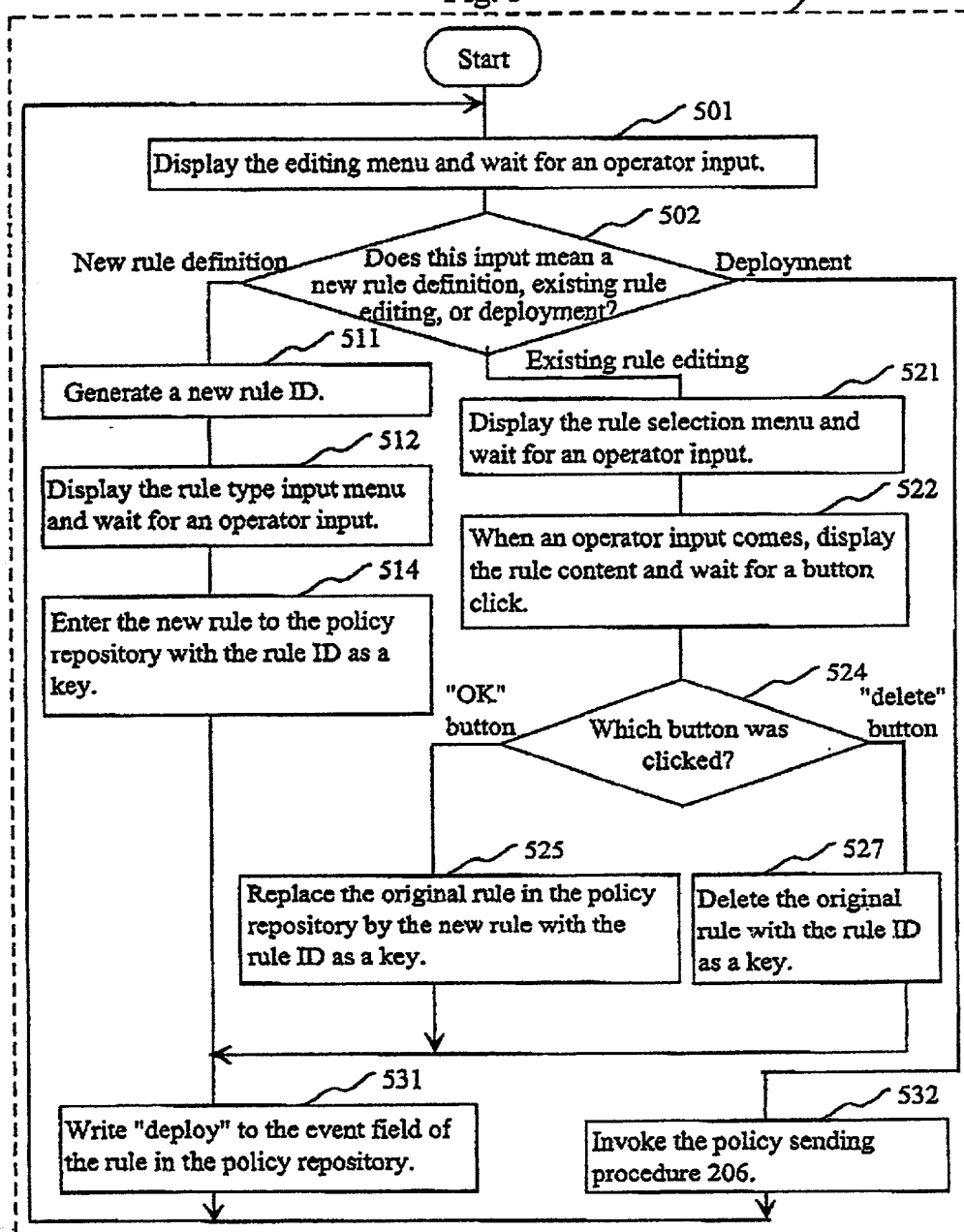


Fig. 5

202



Network configuration management table

Fig. 6

212

↓

Target IP	Router IP	Interface	
192.168.4.*	192.168.1.2	3	← 602
192.168.5.*	192.168.2.2	3	← 603
192.168.6.*	192.168.3.2	4	← 604
192.168.7.*	192.168.3.2	4	← 605
↑	↑	↑	
611	612	613	

Low-level policy DB

Fig. 10

1111

↓

Rule ID	Policy type	Rule	Interface	Codep	
#1	Edge	→ 311	4	90	← 1011
#2	Edge	→ 312	4	118	← 1012
#3	Edge	→ 313	4	174	← 1013
#4	Edge	→ 314	1, 2, 3, 4	230	← 1014
#5	Core	→ 361	1, 2, 3, 4	332	← 1015
#6	Core	→ 362	1, 2, 3, 4	364	← 1016
#7	Core	→ 363	1, 2, 3, 4	300	← 1017
#8	Core	→ 364	1, 2, 3, 4	428	← 1018
↑	↑	↑	↑	↑	
1021	1022	1023	1024	1025	

Label reference table

Fig. 11

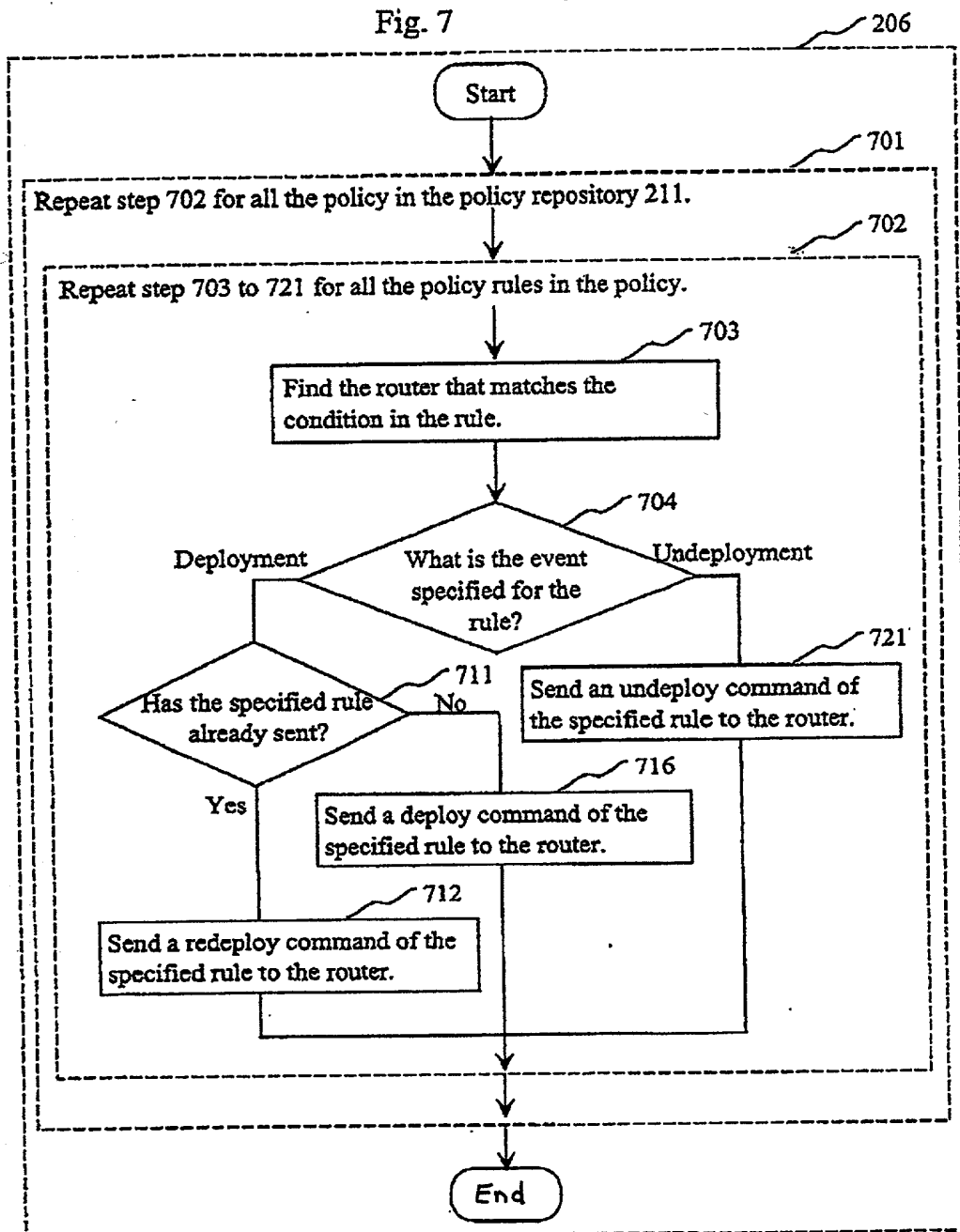
1101

↓

Label type	Label value	Defining rule	Referring rule	
DSCP	18	#1	#7	← 1111
DSCP	46	#2	#5	← 1112
DSCP	10	#3	#6	← 1113
DSCP	0	#3	#8	← 1114
↑	↑	↑	↑	
1121	1122	1123	1124	

Policy sending procedure

Fig. 7



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Fig. 8

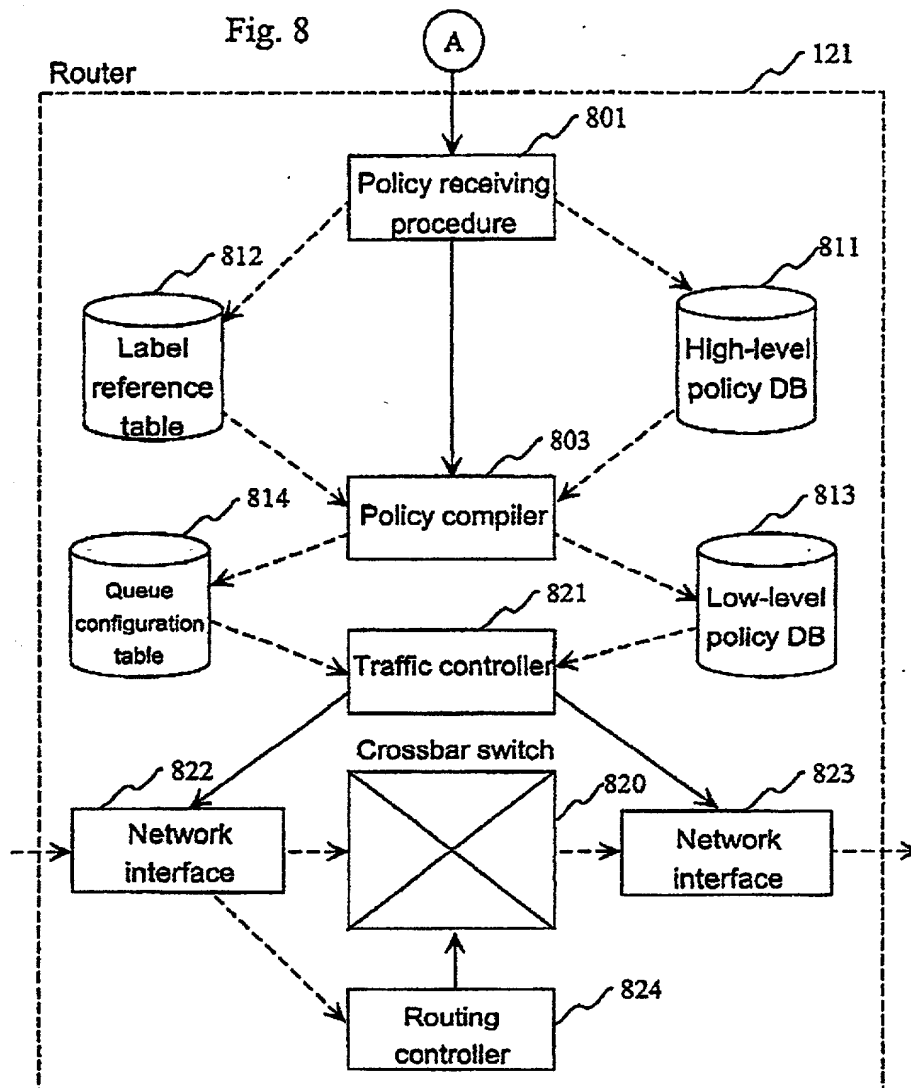


Fig. 9

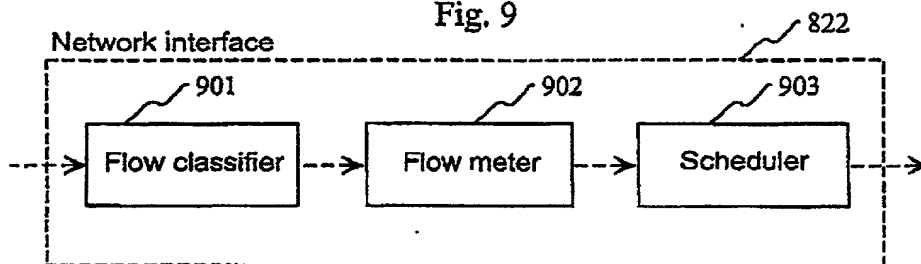
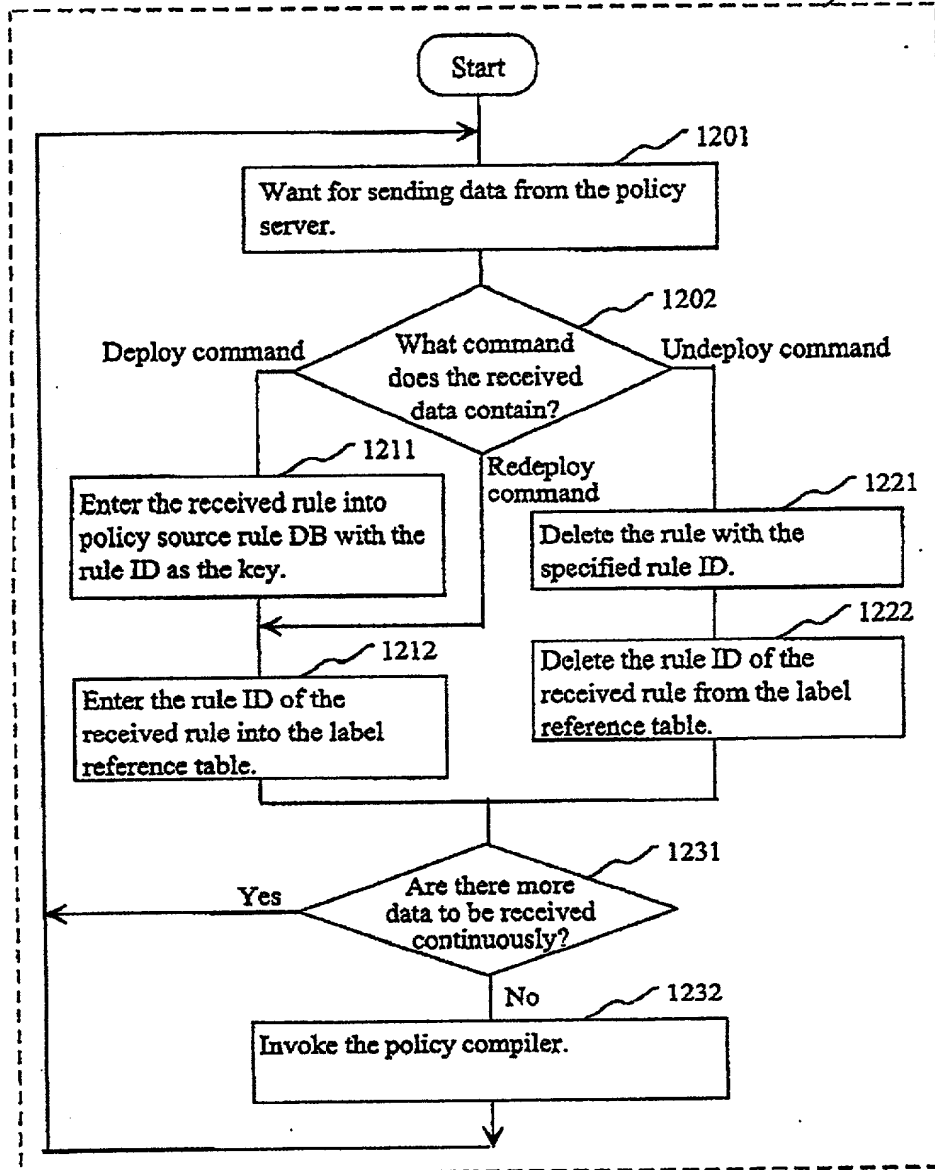


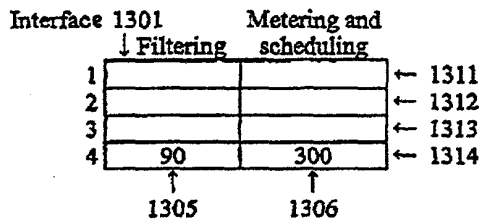
Fig. 12

801



Policy rule table

Fig. 13 (a)



1315
↓

Addr	Source IP Min	Source IP Max	Source IP Port	Dest IP Min	Dest IP Max	Dest IP Port	DSCP	New DSCP	Filter action	
90	192.168. 6.0	192.168. 6.255	-	0.0.0.0	255.255. 255.255	-	18	-	-	←1331
118	192.168. 7.1	192.168. 7.1	-	0.0.0.0	255.255. 255.255	-	-	46	-	←1332
146	192.168. 7.3	192.168. 7.3	-	0.0.0.0	255.255. 255.255	-	-	46	-	←1333
174	192.168. 7.2	192.168. 7.2	-	0.0.0.0	255.255. 255.255	-	-	10	-	←1334
202	192.168. 7.4	192.168. 7.4	-	0.0.0.0	255.255. 255.255	-	-	10	-	←1335
230	0.0.0.0	255.255. 255.255	-	0.0.0.0	255.255. 255.255	-	-	0	-	←1336

 ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑
 1321 1322 1323 1324 1325 1326 1327 1328 1330

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Fig. 13 (b)

1316
↓

Addr	Source IP Min	Source IP Max	Source IP Port	Dest IP Min	Dest IP Max	Dest IP Port	DSCP	Info. rate	In Queue	Out DSCP	Out Queue	Out Drop
300	192.168. 6.0	192.168. 6.255	-	0.0.0.0	255.255. 255.255	-	18	-	5	-	-	-
332	0.0.0.0	255.255. 255.255	-	0.0.0.0	255.255. 255.255	-	46	1000	6	-	-	drop
364	192.168. 7.2	192.168. 7.2	-	0.0.0.0	255.255. 255.255	-	10	-	5	-	-	-
396	192.168. 7.4	192.168. 7.4	-	0.0.0.0	255.255. 255.255	-	10	-	5	-	-	-
428	0.0.0.0	255.255. 255.255	-	0.0.0.0	255.255. 255.255	-	-	-	2	-	-	-

↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑

1341 1342 1343 1344 1345 1346 1347 1348 1349 1350 1351 1352

Queue configuration table

Fig. 15

814 1501 1502
↓ ↓ ↓

Interface	Address	Schedl alg
1	-	-
2	-	-
3	-	-
4	-	PrioritySchedl

← 1511
← 1512
← 1513
← 1514

Fig. 16

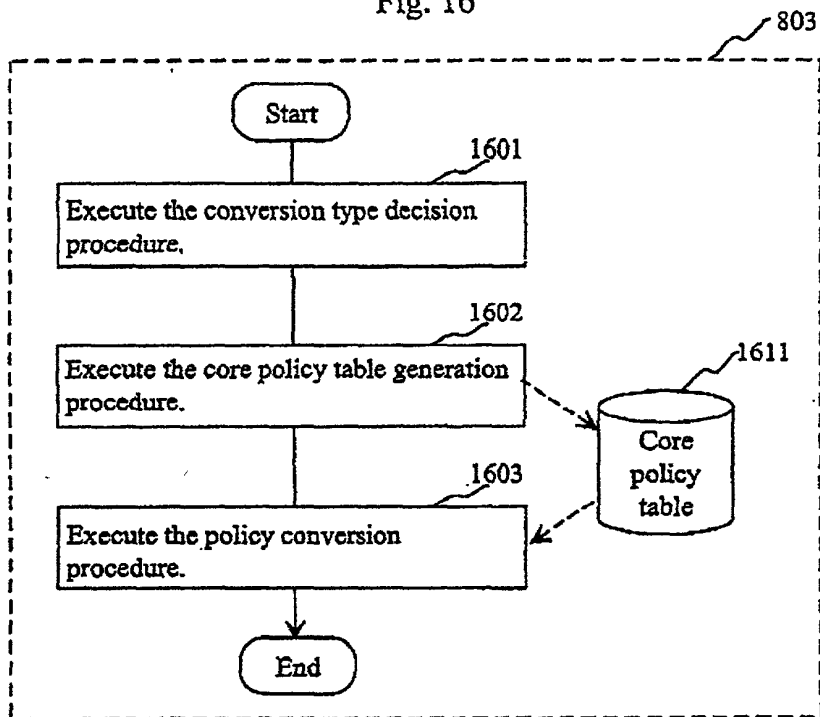


Fig. 17

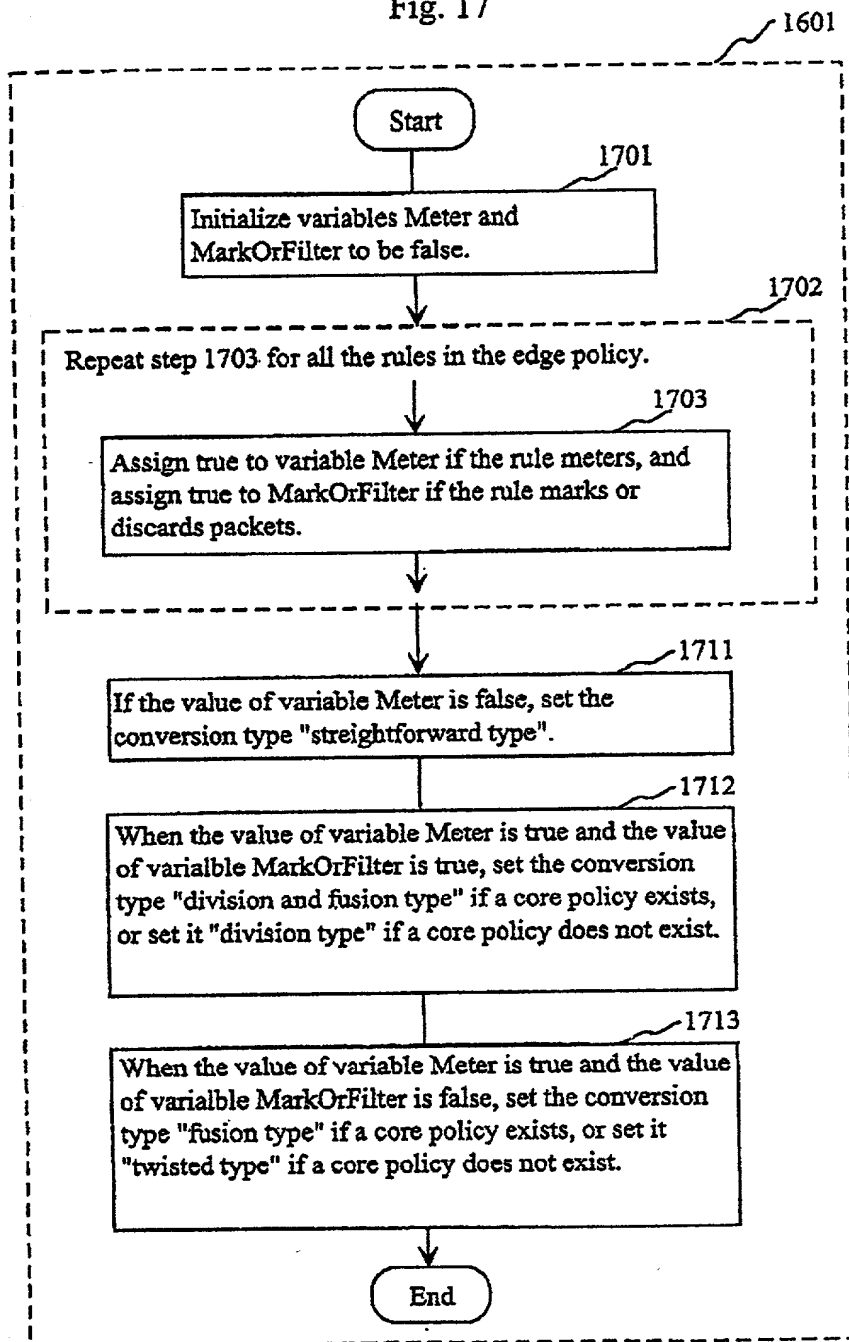


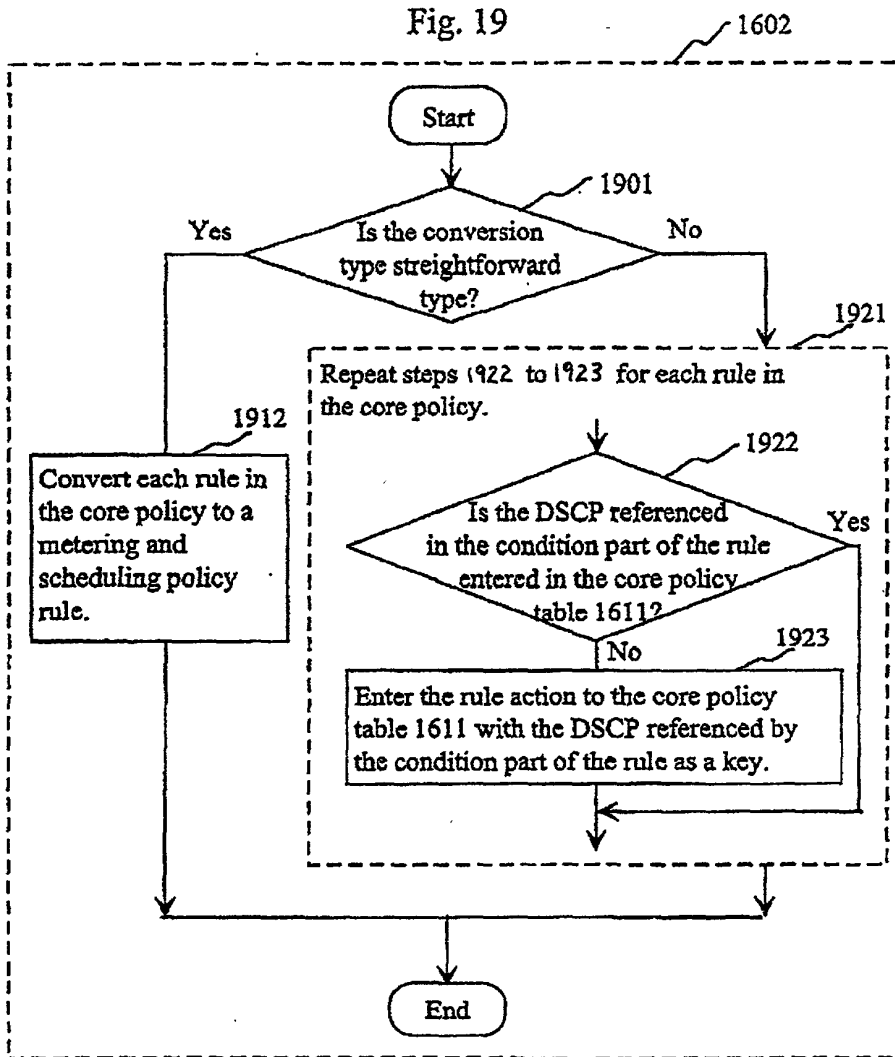
Fig. 18

1611

DSCP	10	Scheduling_algorithm = "Priority"; Queue_priority = 5;	1801
DSCP	18	Scheduling_algorithm = "Priority"; Queue_priority = 5;	1802
DSCP	46	Scheduling_algorithm = "Priority"; Queue_priority = 6;	1803
DSCP	-	Scheduling_algorithm = "Priority"; Queue_priority = 2;	1804

Core policy table generation procedure

Fig. 19



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Fig. 20

1603

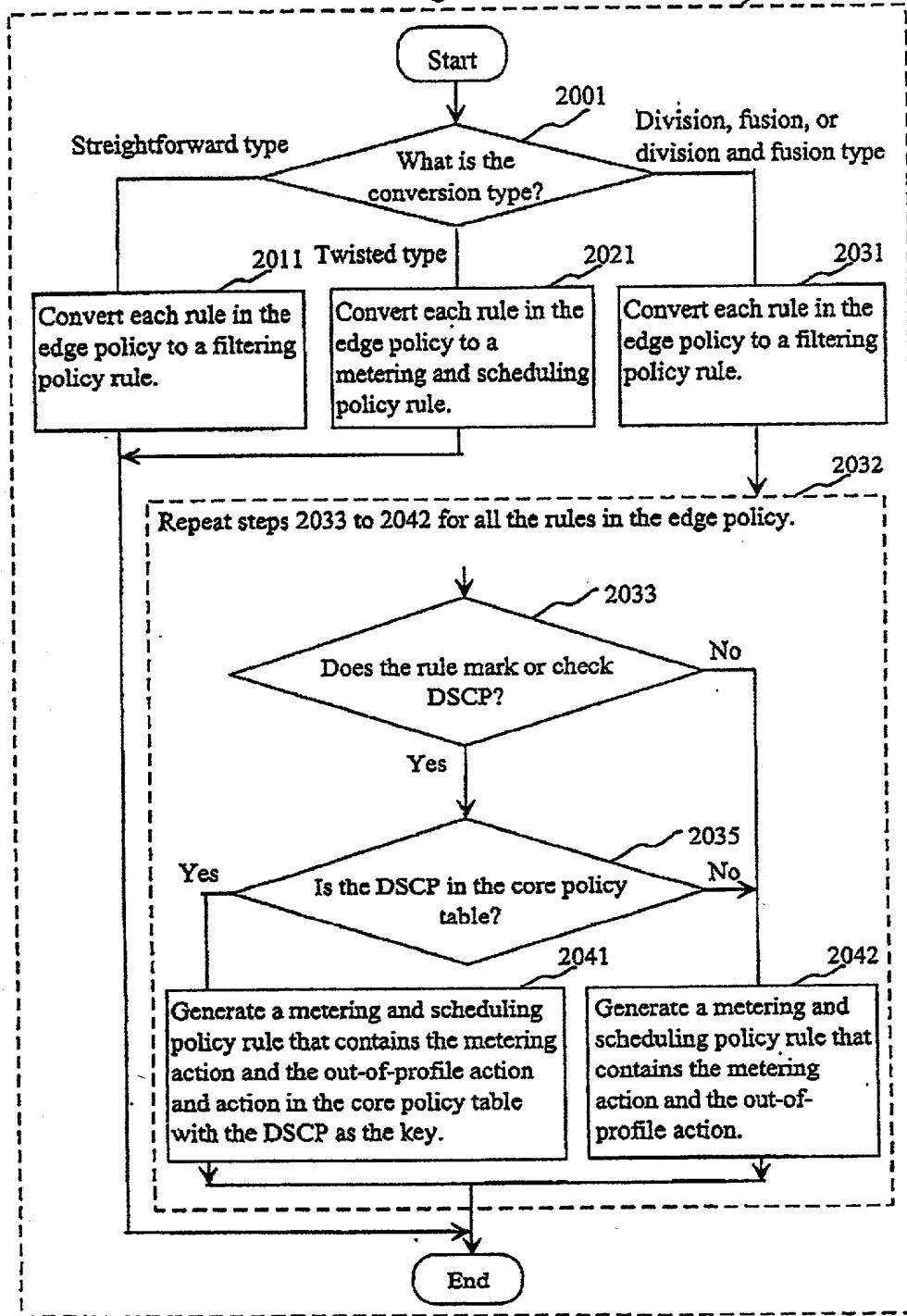


Fig. 21 (a)

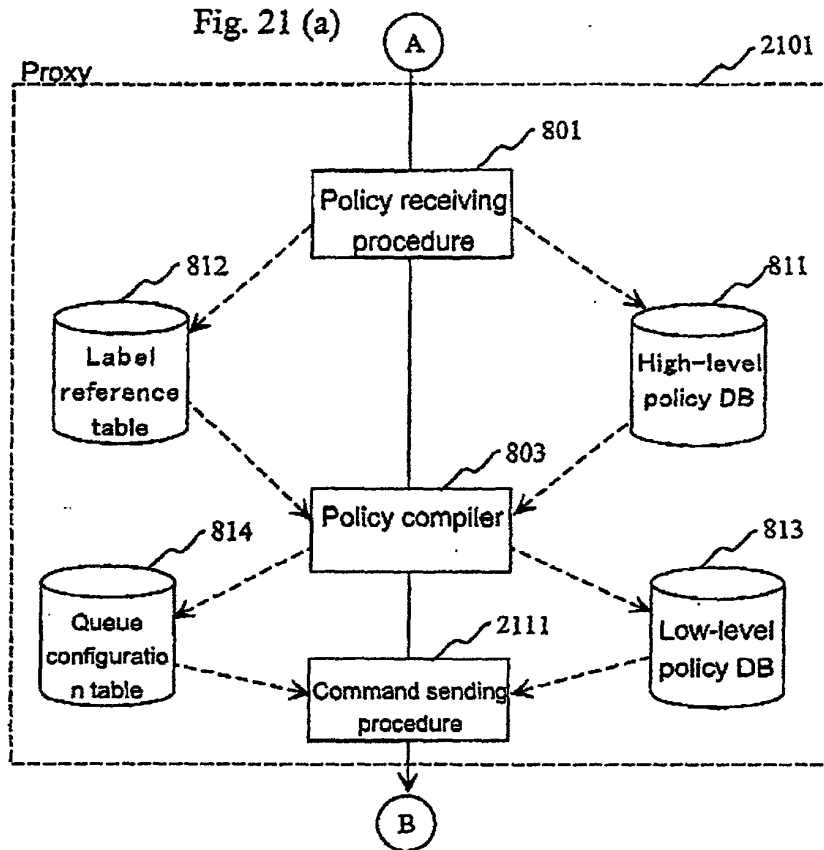
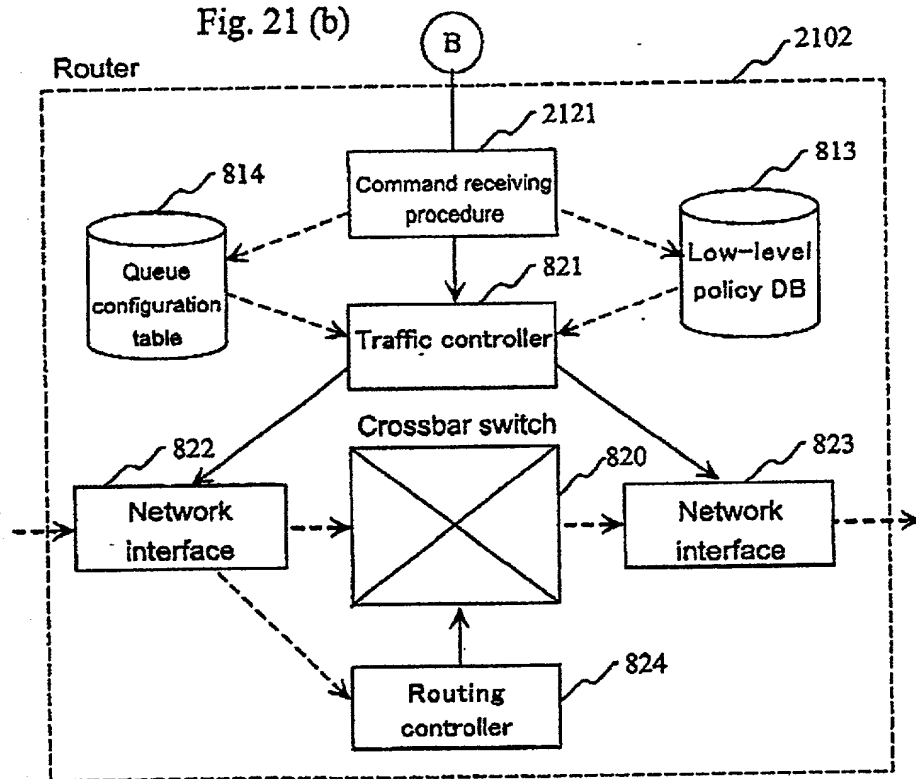


Fig. 21 (b)



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Fig. 22

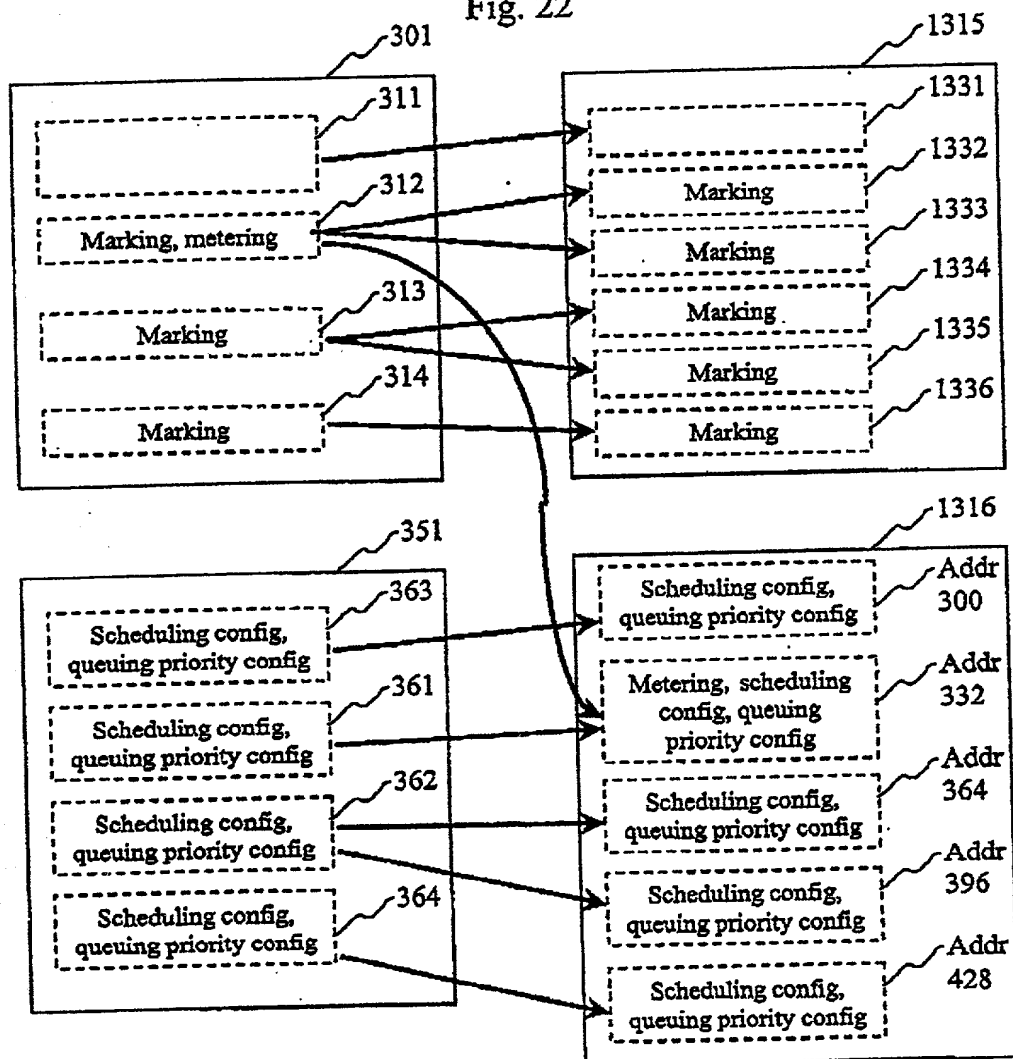
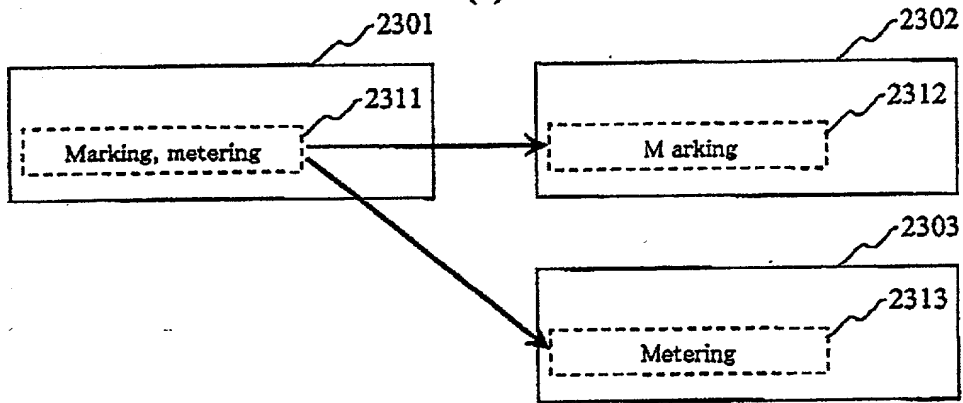


Fig. 23

(a)



(b)

